

***NATIONAL WEATHER SERVICE ALASKA REGION SUPPLEMENT 04-2002
APPLICABLE TO NWSI 10-310
JANUARY 13, 2004***

***Operations and Services
Marine and Coastal Weather Services, NWSPD 10-3
Coastal Marine Forecast Services, NWSI 10-310***

ALASKA COASTAL MARINE FORECAST SERVICES

NOTICE: This publication is available at: <http://www.nws.noaa.gov/directives/>.

OPR: W/AR1x2 (A. Devaris)

Certified by: W/AR1 (J. Partain)

Type of Issuance: Routine

SUMMARY OF REVISIONS: This supplement supercedes Alaska Region Supplement 04-2002, "Alaska Coastal Marine Forecast Services," dated January 7, 2003, filed with NWSI 10-310.

The following changes were made in this issuance:

1. Format instructions for Alaska Region Weather Forecast Office (WFO) Coastal Waters Forecasts (CWF) were removed. Alaska Region WFOs follow the national format for these products.
2. Content instructions for the CWF were expanded to provide specifications necessary for designing consistent text formatting software.
3. The format for the Weather Service Office (WSO) adaptive CWF was added.
4. Forecast examples were updated.
5. A separate product description for the Coded Marine Forecast (CMF) was included. This section was removed from the CWF section and expanded to provide more detailed description.

The section numbers in this supplement refer to the section numbers in NWSI 10-310.

<u>Signed by James Partain</u>	<u>1/9/04</u>
Laura K. Furgione	Date
Acting Regional Director	

Alaska Coastal Marine Forecast Services

<u>Table of Contents:</u>	<u>Page</u>
1. Purpose	2
2. Coastal Waters Forecasts (CWF).	2
2.2 Issuance Guidelines	2
2.3 Technical Description	2
2.3.3 Content	2
2.4 Format	4
4. Coded Marine Forecast (CMF)	4
4.1 Mission Connection	4
4.2 Issuance Guidelines	5
4.2.1 Creation Software	5
4.2.2 Issuance Criteria	5
4.2.3 Issuance Time	5
4.2.4 Valid Time	5
4.2.5 Product Expiration Time	5
4.3 Technical Description	5
4.3.1 Mass News Dissemination (MND) Broadcast Line	5
4.3.2 MND Heading	5
4.3.3 Content	5
4.3.3.1 Weather/Visibility	6
4.4 Format	6
4.5 Updates, Amendments and Corrections	7
Appendix	A-1

1. Purpose. The coastal marine forecast service procedures in the Alaska Region are described to augment the procedures in NWSI 10-310.

2. Coastal Waters Forecasts (CWF).

2.2 Issuance Guidelines. WFOs provide CWFs to explicitly state expected weather conditions within their marine forecast areas of responsibility through five days. Some WSOs provide a CWF for selected bays and passages in their local areas to support and promote safe commercial and recreational use in high traffic areas. This is done by adapting the CWF generated by the WFO for the adjacent marine area to account for the effects of the local topography and bathymetry.

2.3 Technical Description.

2.3.3 Content. As shown in the examples in the Appendix, wind forecasts are given first,

followed by the sea state forecast and then significant weather in each period. In addition, the following guidelines should be observed:

1. Time periods (today, tonight, etc.) will be combined when similar conditions are forecast.
2. Ranges for wind speed and wave height are not permitted. Single values representing predominant conditions are used.
3. If wind gusts are forecast, only one gust value may be included in each period.
4. Visibility is only included for forecast conditions of 1 nautical mile (nm) or less.
5. Forecasts should highlight meaningful trends and significant changes to ensure HF and VHF broadcasts of these products are concise and understandable. Thus, forecast changes within periods should be kept to a minimum. (Guidelines are provided in Table 1.)

Marine Weather Parameter	Expression in Forecast
Winds < 24 kt	No deterministic changes mentioned, unless increasing to gale. If increasing to gale, only include trend to highest value (e.g., INCREASING TO 40 KT). Note: For all wind speeds, if change is less than threshold specified above, use a trend from the highest value (e.g., SOUTH WINDS 15 KT DECREASING).
Winds 24-50 kt	Include speed changes of 10 kt or more, unless increasing to gale. If increasing to gale, only include trend to highest value (e.g., INCREASING TO 40 KT).
Winds ≥ 50 kt	Include wind speed changes of 20 kt or more (e.g., EAST WINDS 50 KT INCREASING TO 70 KT).
Wind direction	Include changes of 90 degrees or more.
Waves > 6 ft	Include changes of 25% or greater.
Waves < 6 ft	Include trend from highest value (subsiding or building).
Weather	If probability is 65% or greater, a categorical forecast of precipitation is mentioned (e.g., RAIN, SNOW). No expressions of probability are included (e.g., LIKELY, CHANCE OF). Only one change or trend allowed per period (e.g., RAIN ENDING).
Visibility	Only one trend allowed per period (improving from or deteriorating to lowest condition).

Table 1 – Guidelines for composition of the Coastal Waters Forecast.

Exception: For waters with a large recreational marine community, such as the Inside Passage or Prince William Sound, or near large subsistence marine communities, like much of Northern Alaska, changes more minor than those outlined in Table 1 may be included based upon expressed customer needs and in accordance with all relevant dissemination restrictions.

2.4 Format. The CWF product issued by the WFOs and WSOs will follow the format prescribed in NWSI 10-310. To aid in dissemination, WFOs should use standard abbreviations in the text of the CWF (i.e., NW instead of NORTHWEST).

Exception: Similar to the Nearshore Marine Forecast issued in the Great Lakes, the CWF issued by the WSOs will not contain a synopsis. See the format in Figure 1.

```
(WMO ID)(ISSUANCE DATE TIME)
(AWIPS ID)

MARINE FORECAST FOR (AREA DESCRIPTION)
NATIONAL WEATHER SERVICE (CITY)(STATE)
(VALID TIME) AM/PM (LOCAL TIME ZONE)(DAY)(DATE)

(AREAL UGC CODE[S])-(EXPIRATION TIME)-
(FORECAST AREAL DESCRIPTOR[S])
(VALID TIME) AM/PM (LOCAL TIME ZONE)(DAY)(DATE)

...HEADLINE (If needed)...

.PERIOD 1...
.PERIOD 2...
.PERIOD 3...
.PERIOD 4...
.PERIOD 5...
.PERIOD 6 (Optional period for the morning issuance)...
.PERIOD 7 (Optional period for the afternoon issuance)...
(DAY 4)...
(DAY 5)...
$$
FORECASTER NAME (Optional)
```

Figure 1 – Coastal Waters Format for WSOs.

4. Coded Marine Forecast.

4.1 Mission Connection. The Coded Marine Forecast (CMF) is designed to provide ships at sea with marine forecast information via Marine Radio Facsimile broadcasts. Due to large gaps in NOAA Weather Radio coverage along Alaska's coast, this is a way to provide mariners with routine access to marine forecast and warning information. This product is intended to provide information to assist in the protection of life and property and enhance the nation's economy.

4.2 Issuance Guidelines.

4.2.1 Creation Software. The CMF is generated on an automated schedule using software requiring no post editing.

4.2.2 Issuance Criteria. The CMF is generated twice daily coincident with the timing of the issuance of the Coastal Waters Forecasts and Offshore Marine Forecasts by the WFOs.

4.2.3 Issuance Time. The CMF is disseminated via Marine Radio Facsimile on a schedule established by the U.S. Coast Guard. The Kodiak Marine Radio Fax broadcast schedule is available at <http://weather.noaa.gov/fax/alaska.shtml>.

4.2.4 Valid Time. The CMF is valid from the time of issuance until the expiration time.

4.2.5 Product Expiration Time. The CMF expiration time is no more than 12 hours from the product issuance.

4.3 Technical Description. The CMF will follow the format and content described in this section.

4.3.1 Mass News Dissemination (MND) Broadcast Line. None.

4.3.2 MND Heading. National Weather Service Marine Forecast for Alaska.

4.3.3 Content. The Coded Marine Forecast is an alphanumeric product in a table format that provides abbreviated versions of the Coastal Waters Forecasts and Offshore Marine Forecasts. The table contains forecast information for the following marine weather parameters: wind, waves, icing, and significant weather.

The CMF contains a summary of the forecasts issued in the offshore and selected coastal waters products in the form of a 12- and 24-hour snapshot for each given marine area. In other words, the forecast represents the conditions expected to occur at the valid time (00Z or 12Z), not an average forecast for the 12-hour period. The tabular summary consists of the following items:

Warning – Include the warning type expected to be in effect at the valid time. Do not include volcanic ash. For Hurricane Force use “HURC,” for Storm use “STM,” for Gale use “GALE,” for Small Craft Advisory use “SMCR,” for Brisk Wind Advisory use “BRISK.” If no warnings are expected, enter “NONE.”

Wind – Predominant direction to 8 point compass; wind speed in knots. Use “V” for variable direction.

Seas – Significant wave height in feet; use only one value.

Weather – Predominant weather condition, using the weather types and contractions listed in Table 1. The main obstruction to visibility should be used if there is more than one weather type (i.e., fog instead of rain). Authorized terms and their abbreviations are

listed in 4.3.3.1 below. If no significant weather is expected, leave at least one blank space between the delimiters.

Icing – When icing is expected, use “ICING” or “HEAVY,” corresponding to the marine forecast. If no icing is expected, use “NONE.”

4.3.3.1 Weather/Visibility. Table 2 lists the weather terms and abbreviations that may be used in the CMF.

Weather Term	Abbreviation
Rain	RAIN
Snow	SNOW
Rain and Snow	RASN
Freezing Rain	FZRA
Showers	SHWRS
Thunderstorms	TSTM
Fog	FOG
Squall	SQLL
Blowing Snow Over Ice-Covered Areas	BLSN

Table 2 – Weather terms and abbreviations to be used in the CMF.

4.4 Format. The CMF will follow the format specified in Figure 2.

NATIONAL WEATHER SERVICE MARINE FORECAST FOR ALASKA											
FORECAST FOR HHMM UTC MON DD YYYY						FORECAST FOR HHMM UTC MON DD YYYY					
AREA	WIND (KT)	SEA (FT)	WX	WARNINGS	ICING	AREA	WIND (KT)	SEA (FT)	WX	WARNINGS	ICING
1A	S35	7	RAIN	GALE	NONE	1A	N25	5		SMCR	ICING
ISSUED HHMM UTC MON DD YYYY						NEXT SCHEDULED FORECAST HHMM UTC MON DD YYYY					
12 AND 24 HOUR MARINE FORECAST TABLES											

Figure 2 – Format for the Coded Marine Forecast with a sample entry included.

4.5 Updates, Amendments and Corrections. The CMF is not updated, amended, or corrected. It is generated automatically at a designated time prior to the Kodiak Marine Facsimile broadcast based on information extracted from OFFs and selected CWFs at that time.

APPENDIX - Examples of Coastal NWS Alaska Forecasts

Table of Contents:

1.	Coastal Waters Forecast	A-1
1.1	WFO Juneau Coastal Waters Forecast	A-1
1.2	WFO Anchorage Coastal Waters Forecast	A-4
1.3	WFO Fairbanks Coastal Waters Forecast	A-7
1.4	WSO Coastal Waters Forecast	A-11

1. Coastal Waters Forecast.

1.1 Example of a WFO Coastal Waters Forecast.

FZAK51 PAJK 101230
CWFAJK

SOUTHEAST ALASKA COASTAL WATERS FORECAST
NATIONAL WEATHER SERVICE JUNEAU ALASKA
400 AM AST WED DEC 10 2003

SOUTHEAST ALASKA INSIDE WATERS FROM DIXON ENTRANCE TO SKAGWAY

WIND FORECASTS REFLECT THE PREDOMINANT SPEED AND DIRECTION
EXPECTED. SEA FORECASTS REPRESENT THE AVERAGE OF THE HIGHEST
ONE-THIRD OF THE COMBINED WIND WAVE AND SWELL HEIGHT.

PKZ098-110300-
.SYNOPSIS FOR SOUTHEAST ALASKA INNER CHANNELS COASTAL WATERS...
A WEATHER FRONT OVER THE CENTRAL GULF WILL MOVE EAST AND
DISSIPATE AS IT MOVES THROUGH SOUTHEAST ALASKA WED NIGHT.
ANOTHER WEATHER FRONT WILL MOVE NORTHEAST TO THE CENTRAL GULF
WED NIGHT...THEN THROUGH SOUTHEAST ALASKA BY THU NIGHT. A STRONG
LOW WILL MOVE NORTH TO THE FAR NORTHWEST GULF BY THU NIGHT.

\$\$
PKZ011-110300-
GLACIER BAY-
400 AM AST WED DEC 10 2003

...SMALL CRAFT ADVISORY TONIGHT...

.TODAY...NE WINDS 20 KT. SEAS 4 FT. SNOW
.TONIGHT...NE WINDS 25 KT. SEAS 5 FT. SNOW.
.THU...NE WINDS 20 KT. SEAS 5 FT. RAIN.
.THU NIGHT...SE WINDS 20 KT. SEAS 4 FT. RAIN.
.FRI...SE WINDS 25 KT. SEAS 5 FT. RAIN.
.SAT...E WINDS 20 KT. SEAS 4 FT.
.SUN...SE WINDS 25 KT. SEAS 6 FT.

\$\$
PKZ012-110300-
LYNN CANAL NORTH OF BERNERS BAY-
400 AM AST WED DEC 10 2003

...SMALL CRAFT ADVISORY TONIGHT...

.TODAY...N WINDS 20 KT. SEAS 4 FT.
.TONIGHT...N WINDS 20 KT. SEAS 4 FT. SNOW.
.THU...N WINDS 25 KT. SEAS 5 FT. SNOW.
.THU NIGHT...N WINDS 20 KT. SEAS 4 FT. RAIN.
.FRI...S WINDS 15 KT. SEAS 4 FT. RAIN.
.SAT...N WINDS 25 KT. SEAS 5 FT.
.SUN...N WINDS 25 KT. SEAS 6 FT.

\$\$

PKZ013-110300-
LYNN CANAL SOUTH OF BERNERS BAY-
400 AM AST WED DEC 10 2003

...SMALL CRAFT ADVISORY TONIGHT...

.TODAY...N WINDS 20 KT. SEAS 4 FT.
.TONIGHT...N WINDS 20 KT. SEAS 4 FT. SNOW.
.THU...N WINDS 25 KT. SEAS 5 FT. SNOW.
.THU NIGHT...SE WINDS 20 KT. SEAS 4 FT. RAIN.
.FRI...S WINDS 20 KT. SEAS 4 FT. RAIN.
.SAT...N WINDS 25 KT. SEAS 5 FT.
.SUN...N WINDS 25 KT. SEAS 6 FT.

\$\$

PKZ021-110300-
ICY STRAIT-
400 AM AST WED DEC 10 2003

...SMALL CRAFT ADVISORY TONIGHT...

.TODAY...E WINDS 20 KT. SEAS 4 FT.
.TONIGHT...E WINDS 25 KT. SEAS 5 FT. SNOW MIXING WITH RAIN.
.THU...E WINDS 25 KT. SEAS 5 FT. RAIN AND SNOW.
.THU NIGHT...SE WINDS 20 KT. SEAS 5 FT. RAIN.
.FRI...SE WINDS 25 KT. SEAS 5 FT. RAIN.
.SAT...NE WINDS 25 KT. SEAS 5 FT.
.SUN...E WINDS 25 KT. SEAS 6 FT.

\$\$

PKZ022-110300-
CROSS SOUND-
400 AM AST WED DEC 10 2003

...SMALL CRAFT ADVISORY TONIGHT...

.TODAY...NE WINDS 30 KT. SEAS 10 FT.
.TONIGHT...NE WINDS 25 KT. SEAS 12 FT. RAIN AND SNOW.
.THU...NE WINDS 25 KT. SEAS 12 FT. RAIN.
.THU NIGHT...SW WINDS 20 KT. SEAS 7 FT. SHOWERS.
.FRI...SE WINDS 20 KT. SEAS 10 FT. SHOWERS.
.SAT...NE WINDS 25 KT. SEAS 8 FT.
.SUN...NE WINDS 30 KT. SEAS 6 FT.

\$\$

PKZ031-110300-
STEPHENS PASSAGE-
400 AM AST WED DEC 10 2003

...SMALL CRAFT ADVISORY TONIGHT...

.TODAY...E WINDS 20 KT. WITH WITH HIGHER WINDS NEAR INTERIOR

PASSES. SEAS 4 FT.
 .TONIGHT...E WINDS 25 KT. WINDS TO 30 KT. NEAR INTERIOR PASSES.
 SEAS 5 FT. RAIN AND SNOW.
 .THU...E WINDS 25 KT. SEAS 5 FT. RAIN AND SNOW DEVELOPING.
 .THU NIGHT...SE WINDS 20 KT. SEAS 4 FT. RAIN.
 .FRI...SE WINDS 20 KT. SEAS 4 FT. RAIN.
 .SAT...NE WINDS 30 KT. SEAS 6 FT.
 .SUN...NE WINDS 25 KT. SEAS 6 FT.

\$\$

PKZ032-110300-
 CHATHAM STRAIT NORTH OF POINT GARDNER-
 400 AM AST WED DEC 10 2003

...SMALL CRAFT ADVISORY THROUGH TONIGHT...

.TODAY...N WINDS 20 KT. SEAS 4 FT.
 .TONIGHT...N WINDS 25 KT. SEAS 5 FT. RAIN AND SNOW.
 .THU...N WINDS 20 KT. SEAS 5 FT. RAIN.
 .THU NIGHT...S WINDS 20 KT. SEAS 4 FT. RAIN.
 .FRI...SE WINDS 20 KT. SEAS 4 FT. RAIN.
 .SAT...N WINDS 30 KT. SEAS 6 FT.
 .SUN...N WINDS 25 KT. SEAS 5 FT.

\$\$

PKZ033-110300-
 CHATHAM STRAIT SOUTH OF POINT GARDNER-
 400 AM AST WED DEC 10 2003

...SMALL CRAFT ADVISORY THROUGH TONIGHT...

.TODAY...NE WINDS 25 KT. SEAS 5 FT.
 .TONIGHT...NE WINDS 25 KT. SEAS 6 FT. RAIN.
 .THU...NE WINDS 25 KT. SEAS 9 FT. RAIN.
 .THU NIGHT...S WINDS 20 KT. SEAS 9 FT. RAIN.
 .FRI...SE WINDS 25 KT. SEAS 14 FT. RAIN.
 .SAT...N WINDS 30 KT. SEAS 12 FT.
 .SUN...SE WINDS 25 KT. SEAS 9 FT.

\$\$

PKZ034-110300-
 FREDERICK SOUND-
 400 AM AST WED DEC 10 2003

...SMALL CRAFT ADVISORY THROUGH TONIGHT...

.TODAY...E WINDS 25 KT WITH HIGHER WINDS NEAR INTERIOR PASSES.
 SEAS 5 FT.
 .TONIGHT...E WINDS 25 KT WITH HIGHER WINDS NEAR INTERIOR PASSES.
 SEAS 5 FT. RAIN.
 .THU...E WINDS 25 KT. SEAS 6 FT. RAIN.
 .THU NIGHT...SE WINDS 20 KT. SEAS 5 FT. SHOWERS.
 .FRI...E WINDS 20 KT. SEAS 5 FT. SHOWERS.
 .SAT...NE WINDS 30 KT. SEAS 6 FT.
 .SUN...NE WINDS 30 KT. SEAS 7 FT.

\$\$

PKZ035-110300-
 SUMNER STRAIT-
 400 AM AST WED DEC 10 2003

...SMALL CRAFT ADVISORY THROUGH TONIGHT...

.TODAY...E WINDS 25 KT. WITH HIGHER WINDS NEAR INTERIOR PASSES.
SEAS 5 FT.
.TONIGHT...E WINDS 25 KT. WITH WINDS TO 35 KT. NEAR INTERIOR
PASSES. SEAS 5 FT. RAIN.
.THU...SE WINDS 25 KT. SEAS 6 FT. RAIN.
.THU NIGHT...SW WINDS 20 KT. SEAS 5 FT. SHOWERS.
.FRI...SW WINDS 15 KT...BECOMING SE 30 KT. IN THE AFTERNOON AND
EVENING. SEAS 9 FT. SHOWERS.
.SAT...NE WINDS 30 KT. SEAS 8 FT.
.SUN...SW WINDS 30 KT. SEAS 6 FT.

\$\$

PKZ036-110300-
CLARENCE STRAIT-
400 AM AST WED DEC 10 2003

...SMALL CRAFT ADVISORY THROUGH TONIGHT...

.TODAY...SE WINDS 25 KT. WITH WINDS TO 35 KT. NEAR INTERIOR PASSES.
SEAS 5 FT.
.TONIGHT...SE WINDS 30 KT. WITH HIGHER WINDS NEAR INTERIOR PASSES.
SEAS 5 FT. RAIN.
.THU...SE WINDS 30 KT. SEAS 8 FT. RAIN.
.THU NIGHT...S WINDS 20 KT. SEAS 7 FT. SHOWERS.
.FRI...S WINDS 20 KT...BECOMING SE 30 KT. IN THE AFTERNOON AND
EVENING. SEAS 9 FT. SHOWERS.
.SAT...SE GALES TO 35 KT. SEAS 9 FT.
.SUN...SW GALES TO 40 KT. SEAS 8 FT.

\$\$

1.2 Example of a WFO Fairbanks Coastal Waters Forecast.

FZAK59 PAFG 180045
CWFAFG

NORTHERN ALASKA COASTAL WATERS FORECAST
NATIONAL WEATHER SERVICE FAIRBANKS AK
400 PM AST WED JAN 21 2004

WESTERN AND ARCTIC ALASKAN COASTAL WATERS

WIND FORECASTS REFLECT THE PREDOMINANT SPEED AND DIRECTION
EXPECTED. SEA FORECASTS REPRESENT THE AVERAGE OF THE HIGHEST
ONE-THIRD OF THE COMBINED WIND WAVE AND SWELL HEIGHT.

PKZ299-181300-
400 PM AST WED JAN 21 2004

.SYNOPSIS FOR WESTERN ALASKA AND THE ARCTIC COAST...A 965 MB LOW IN THE
CENTRAL BERING SEA WILL REMAIN NEARLY STATIONARY WEST OF ST MATTHEW ISLAND
WEAKENING THROUGH FRI.

\$\$

AREA 9A
PKZ290-181300-
NORTON SOUND SLEDGE ISLAND TO NUNAKTUK ISLAND-
400 PM AST WED JAN 21 2004

...BRISK WIND ADVISORY THU...

.TONIGHT...NW WIND TO 15 KT. SEAS IN ICE FREE WATERS TO 3 FT.
.THU...NW WIND TO 30 KT. SEAS IN ICE FREE WATERS TO 7 TO 10 FT.
.THU NIGHT...VARIABLE WIND TO 15 KT. SEAS IN ICE FREE WATERS
TO 3 FT.
.FRI...NE WIND TO 20 KT. SEAS IN ICE FREE WATERS 3 TO 4 FT.
.FRI NIGHT...NE WIND 20 KT BECOMING NW. SEAS IN ICE FREE WATERS
3 TO 4 FT.
.SAT...NW WIND 20 KT. SEAS IN ICE FREE WATERS 3 TO 4 FT.
.SUN...NE WIND 20 KT. SEAS IN ICE FREE WATERS 2 TO 3 FT.
.MON...NW WIND TO 15 KT. SEAS IN ICE FREE WATERS 3 FT.

\$\$

AREA 9B
PKZ295-181300-
DALL POINT TO WALES INCLUDING ST LAWRENCE ISLAND-
400 PM AST WED JAN 21 2004

...SMALL CRAFT ADVISORY THU...

.TONIGHT...NW WIND TO 15 KT. SEAS TO 3 FT.
.THU...NW WIND TO 30 KT. SEAS 4 TO 7 FT.
.THU NIGHT...VARIABLE WIND TO 15 KT. SEAS TO 3 FT.
.FRI...NE WIND TO 20 KT. SEAS 3 TO 4 FT.
.FRI NIGHT...NE WIND 20 KT BECOMING NW. SEAS 3 TO 4 FT.
.SAT...NW WIND 20 KT. SEAS 3 TO 4 FT.
.SUN...NW WIND 20 KT. SEAS 2 TO 3 FT.
.MON...NW WIND TO 15 KT. SEAS IN ICE FREE WATERS 3 FT.

\$\$

AREA 10A
PKZ200-181300-
KOTZEBUE SOUND-
400 PM AST WED JAN 21 2004

...BRISK WIND ADVISORY THU...

.TONIGHT...NW WIND TO 15 KT.
.THU...NW WIND TO 30 KT. BLOWING SNOW. VSBY LESS THAN 1 NM.
.THU NIGHT...VARIABLE WIND TO 15 KT.
.FRI...NE WIND TO 20 KT.
.FRI NIGHT...NE WIND 20 KT BECOMING NW.
.SAT...NW WIND 20 KT.
.SUN...NW WIND 20 KT.
.MON...NW WIND TO 15 KT.

\$\$

AREA 10B
PKZ205-181300-
WALES TO CAPE LISBURNE-
400 PM AST WED JAN 21 2004

...BRISK WIND ADVISORY THU THROUGH FRI...

.TONIGHT...NW WIND TO 15 KT.
.THU AND THU NIGHT...NW WIND TO 30 KT. BLOWING SNOW.
VSBY LESS THAN 1 NM.
.FRI...NE WIND 30 KT. BLOWING SNOW. VSBY LESS THAN 1 NM.
.FRI NIGHT...NE WIND 20 KT BECOMING NW.

.SAT...NW WIND 20 KT.
.SUN...NE WIND 20 KT.
.MON...NW WIND TO 15 KT.

\$\$

AREA 11A
PKZ210-181300-
CAPE LISBURNE TO CAPE HALKETT-
400 PM AST WED JAN 21 2004

...BRISK WIND ADVISORY THU THROUGH FRI...

.TONIGHT...NW WIND TO 15 KT.
.THU AND THU NIGHT...NW WIND TO 30 KT. BLOWING SNOW.
VSBY LESS THAN 1 NM.
.FRI...NE WIND 25 KT. BLOWING SNOW. VSBY LESS THAN 1 NM.
.FRI NIGHT...NE WIND 20 KT BECOMING NW.
.SAT...NW WIND 10 TO 20 KT.
.SUN...NE WIND 20 KT.
.MON...NW WIND TO 15 KT.

\$\$

AREA 11B
PKZ215-181300-
CAPE HALKETT TO DEMARCATION POINT-
400 PM AST WED JAN 21 2004

...BRISK WIND ADVISORY THU THROUGH FRI...

.TONIGHT...NW WIND TO 15 KT.
.THU AND THU NIGHT...NW WIND TO 30 KT. BLOWING SNOW.
VSBY LESS THAN 1 NM.
.FRI...NE WIND 30 KT. BLOWING SNOW. VSBY LESS THAN 1 NM.
.FRI NIGHT...NE WIND 20 KT BECOMING NW.
.SAT...NW WIND 20 KT.
.SUN...NE WIND 20 KT.
.MON...NW WIND TO 15 KT.

\$\$

AREA 11A
PKZ210-181300-
CAPE LISBURNE TO CAPE HALKETT-
400 PM AST WED JAN 21 2004

...BRISK WIND ADVISORY THU THROUGH FRI...

.TONIGHT...NW WIND TO 15 KT.
.THU AND THU NIGHT...NW WIND TO 30 KT. BLOWING SNOW.
VSBY LESS THAN 1 NM.
.FRI...NE WIND 25 KT. BLOWING SNOW. VSBY LESS THAN 1 NM.
.FRI NIGHT...NE WIND 20 KT BECOMING NW.
.SAT...NW WIND 10 TO 20 KT.
.SUN...NE WIND 20 KT.
.MON...NW WIND TO 15 KT.

\$\$

AREA 11B
PKZ215-181300-

CAPE HALKETT TO DEMARCATION POINT-
400 PM AST WED JAN 21 2004

...BRISK WIND ADVISORY THU THROUGH FRI...

.TONIGHT...NW WIND TO 15 KT.
.THU AND THU NIGHT...NW WIND TO 30 KT. BLOWING SNOW.
VSBY LESS THAN 1 NM.
.FRI...NE WIND 25 KT. BLOWING SNOW. VSBY LESS THAN 1 NM.
.FRI NIGHT...NE WIND 20 KT BECOMING NW.
.SAT...NW WIND 10 TO 20 KT.
.SUN...NW WIND 20 KT.
.MON...NW WIND TO 15 KT.

\$\$

JL

1.3 Example of a WFO Anchorage Coastal Waters Forecast.

FZAK51 PAFC 080045
CWFAER

SOUTHCENTRAL ALASKA COASTAL WATERS FORECAST
NATIONAL WEATHER SERVICE ANCHORAGE ALASKA
400 PM AST WED JAN 7 2004

MARINE FORECAST FOR THE NORTHERN GULF OF ALASKA COAST
OUT 100 NM INCLUDING KODIAK ISLAND AND COOK INLET

WIND FORECASTS REFLECT THE PREDOMINANT SPEED AND DIRECTION
EXPECTED. SEA FORECASTS REPRESENT AN AVERAGE OF THE HIGHEST
ONE-THIRD OF THE COMBINED WIND WAVE AND SWELL HEIGHT.

PKZ199-081500-
.SYNOPSIS FOR THE NORTH GULF COAST+KODIAK ISLAND WATERS+
COOK INLET...A 978 MB LOW 150 NM SOUTHWEST OF KODIAK MOVES WITH LITTLE
CHANGE IN PRESSURE OVER DILLINGHAM THU AFTERNOON AND THEN DISSIPATES
AS IT MOVES INTO SOUTHWEST ALASKA.

AREA 2B.
PKZ120-081500-
CAPE SUCKLING TO GORE POINT-
400 PM AST WED JAN 7 2004

...GALE WARNING THROUGH THU...

.TONIGHT...E WIND 30 KTS WITH GUSTS TO AROUND 50 KTS. SEAS 12 FT.
.THU...E WIND 30 KTS WITH GUSTS TO AROUND 60 KTS. SEAS 11
FT. SNOW.
.THU NIGHT...E WIND 40 KTS WITH GUSTS TO AROUND 55 KTS
DIMINISHING TO 30 KTS AFTER MIDNIGHT. SEAS 11 FT. SNOW AND
WIDESPREAD FREEZING FOG. VSBY LESS THAN 1 NM.
.FRI...S WIND 20 KTS. SEAS 11 FT. RAIN AND SNOW AND
WIDESPREAD FOG. VSBY LESS THAN 1 NM.
.FRI NIGHT...S WIND 20 KTS INCREASING TO 30 KTS AFTER
MIDNIGHT. SEAS 10 FT. RAIN LIKELY.
.SAT...S WIND 20 KTS BECOMING N 35 KTS IN THE EVENING.
SEAS 9 FT. RAIN LIKELY.
.SUN...N WIND 35 KTS. SEAS 20 FT.
.MON...E WIND 40 KTS. SEAS 19 FT.

\$\$

AREA 2B1.
PKZ121-081500-
RESURRECTION BAY-
400 PM AST WED JAN 7 2004

...SMALL CRAFT ADVISORY TONIGHT...

.TONIGHT...N WIND 30 KTS. SEAS 9 FT.
.THU...N WIND 20 KTS. SEAS 5 FT. SNOW.
.THU NIGHT...N WIND 20 KTS. SEAS 5 FT. SNOW.
.FRI...N WIND 20 KTS. SEAS 5 FT. SNOW.
.FRI NIGHT...E WIND 15 KTS BECOMING S 25 KTS AFTER
MIDNIGHT. SEAS 5 FT. SNOW LIKELY.
.SAT...S WIND 20 KTS BECOMING NW IN THE EVENING.
SEAS 4 FT. RAIN AND SNOW LIKELY.
.SUN...N WIND 20 KTS. SEAS 5 FT.
.MON...E WIND 30 KTS. SEAS 5 FT.

\$\$

AREA 2C.
PKZ125-081500-
PRINCE WILLIAM SOUND-
400 PM AST WED JAN 7 2004

...GALE WARNING THU...

.TONIGHT...E WIND 20 KTS. SEAS 10 FT.
.THU...E WIND 15 KTS WITH GUSTS TO AROUND 40 KTS. SEAS 9 FT.
SNOW.
.THU NIGHT...E WIND 20 KTS WITH GUSTS TO AROUND 35 KTS. SEAS
11 FT. SNOW AND WIDESPREAD FREEZING FOG.
.FRI...SE WIND 10 KTS. SEAS 11 FT. RAIN AND SNOW AND
WIDESPREAD FREEZING FOG. VSBY LESS THAN 1 NM.
.FRI NIGHT...S WIND 15 KTS WITH GUSTS TO AROUND 35 KTS. SEAS
9 FT. SNOW.
.SAT...S WIND 25 KTS DIMINISHING TO 15 KTS IN THE
AFTERNOON...THEN BECOMING N 30 KTS IN THE EVENING. SEAS 9 FT.
RAIN AND SNOW.
.SUN...N WIND 30 KTS. SEAS 15 FT.
.MON...E WIND 30 KTS. SEAS 16 FT.

\$\$

AREA 2C4.
PKZ129-081500-
PASSAGE CANAL-
400 PM AST WED JAN 7 2004

.TONIGHT...W WIND 20 KTS. SEAS 2 FT OR LESS.
.THU...E WIND 15 KTS. SEAS 2 FT OR LESS. SNOW.
.THU NIGHT...E WIND 20 KTS. WAVES 2 FT OR LESS. SNOW.
.FRI...E WIND 10 KTS. SEAS 2 FT OR LESS. SNOW.
.FRI NIGHT...SE WIND 10 KTS INCREASING TO 20 KTS AFTER
MIDNIGHT. SEAS 2 FT OR LESS. SNOW.
.SAT...S WIND 25 KTS DIMINISHING TO 15 KTS IN THE
AFTERNOON...THEN BECOMING N 20 KTS IN THE EVENING. SEAS 2 FT
OR LESS. RAIN AND SNOW.
.SUN...N WIND 20 KTS. SEAS 2 FT OR LESS.
.MON...E WIND 25 KTS. SEAS 2 FT OR LESS.

\$\$

AREA 3A.
PKZ130-081500-
BARREN ISLANDS AND KAMISHAK BAY WATERS-
400 PM AST WED JAN 7 2004

...GALE WARNING THROUGH THU...

.TONIGHT...NE WIND 30 KTS WITH GUSTS TO AROUND 60 KTS. SEAS
15 FT. SNOW SHOWERS LIKELY.
.THU...E WIND 30 KTS WITH GUSTS TO AROUND 55 KTS. SEAS 12
FT. SNOW SHOWERS.
.THU NIGHT...E WIND 30 KTS WITH GUSTS TO AROUND 65 KTS. SEAS
9 FT. SNOW AND WIDESPREAD FOG. VSBY LESS THAN 1 NM.
.FRI...S WIND 20 KTS. SEAS 10 FT. SNOW LIKELY AND WIDESPREAD
FOG AND FREEZING FOG.
.FRI NIGHT...S WIND 20 KTS WITH GUSTS TO AROUND 35 KTS
BECOMING SW 30 KTS WITH GUSTS TO AROUND 45 KTS AFTER
MIDNIGHT. SEAS 9 FT. RAIN AND SNOW LIKELY.
.SAT...S WIND 20 KTS BECOMING W IN THE EVENING. SEAS 8
FT. RAIN AND SNOW LIKELY.
.SUN...SE WIND 25 KTS. SEAS 13 FT.
.MON...E WIND 35 KTS. SEAS 13 FT.

\$\$

AREA 3B.
PKZ132-081500-
GORE POINT TO SITKINAK-
400 PM AST WED JAN 7 2004

...GALE WARNING TONIGHT...

.TONIGHT...NE WIND 35 KTS WITH GUSTS TO AROUND 65 KTS. SEAS
14 FT. SNOW SHOWERS.
.THU...NE WIND 25 KTS WITH GUSTS TO AROUND 50 KTS. SEAS
11 FT. SNOW LIKELY.
.THU NIGHT...NE WIND 25 KTS WITH GUSTS TO AROUND 40 KTS
BECOMING W 20 KTS AFTER MIDNIGHT. SEAS 9 FT. SNOW LIKELY AND
WIDESPREAD FOG AND FREEZING FOG. VSBY LESS THAN 1 NM.
.FRI...SW WIND 25 KTS WITH GUSTS TO AROUND 45 KTS. SEAS 10
FT. SNOW LIKELY.
.FRI NIGHT...SW WIND 30 KTS WITH GUSTS TO AROUND 45 KTS.
SEAS 9 FT. RAIN AND SNOW LIKELY.
.SAT...S WIND 25 KTS BECOMING SW 15 KTS IN THE AFTERNOON AND
EVENING. SEAS 8 FT. RAIN LIKELY.
.SUN...SE WIND 30 KTS. SEAS 12 FT.
.MON...E WIND 35 KTS. SEAS 12 FT.

\$\$

AREA 3C.
PKZ138-081500-
SHELIKOF STRAIT-
400 PM AST WED JAN 7 2004

...GALE WARNING TONIGHT...

.TONIGHT...NE WIND 35 KTS WITH GUSTS TO AROUND 55 KTS.
SEAS 8 FT.
.THU...NE WIND 30 KTS BECOMING E 40 KTS IN THE AFTERNOON.

GUSTS TO 55 KTS. SEAS 6 FT. SNOW.
.THU NIGHT...NE WIND 30 KTS WITH GUSTS TO AROUND 65 KTS.
SEAS 3 FT SUBSIDING IN THE EVENING. SNOW.
.FRI...SW WIND 20 KTS WITH GUSTS TO AROUND 40 KTS. SEAS 3
FT SUBSIDING. SNOW LIKELY.
.FRI NIGHT...SW WIND 20 KTS. SEAS 4 FT. SNOW LIKELY.
.SAT...S WIND 20 KTS. SEAS 5 FT.
.SUN...SE WIND 35 KTS. SEAS 4 FT.
.MON...E WIND 35 KTS. SEAS 4 FT.

\$\$

AREA 4.
PKZ140-081500-
COOK INLET NORTH OF KAMISHAK BAY AND ENGLISH BAY-
400 PM AST WED JAN 7 2004

...SMALL CRAFT ADVISORY THROUGH THU...

.TONIGHT...NE WIND 30 KTS WITH GUSTS TO AROUND 45 KTS.
SEAS 8 FT.
.THU...NE WIND 30 KTS WITH GUSTS TO AROUND 45 KTS. SEAS
7 FT.
.THU NIGHT...NE WIND 35 KTS WITH GUSTS TO AROUND 60 KTS.
SEAS 8 FT.
.FRI...E WIND 25 KTS WITH GUSTS TO AROUND 40 KTS BECOMING
S 10 KTS IN THE AFTERNOON. SEAS 7 FT. SNOW.
.FRI NIGHT...SE WIND 20 KTS WITH GUSTS TO AROUND 40 KTS.
SEAS 6 FT. SNOW LIKELY.
.SAT...S WIND 25 KTS BECOMING SW 10 KTS IN THE
EVENING. SEAS 4 FT. SNOW LIKELY.
.SUN...E WIND 25 KTS. SEAS 5 FT.
.MON...E WIND 35 KTS. SEAS 7 FT.

\$\$

AREA 4A.
PKZ141-081500-
KACHEMAK BAY-
400 PM AST WED JAN 7 2004

...SMALL CRAFT ADVISORY THROUGH THU...

.TONIGHT...NE WIND 25 KTS. SEAS 10 FT.
.THU...E WIND 25 KTS WITH GUSTS TO AROUND 45 KTS. SEAS 8 FT.
SNOW LIKELY.
.THU NIGHT...NE WIND 35 KTS BECOMING E 30 KTS AFTER
MIDNIGHT. GUSTS TO 50 KTS. SEAS 9 FT. SNOW SHOWERS.
.FRI...E WIND 25 KTS BECOMING SW 10 KTS IN THE
AFTERNOON. SEAS 8 FT. SNOW LIKELY.
.FRI NIGHT...S WIND 20 KTS WITH GUSTS TO AROUND 40 KTS. SEAS
7 FT. SNOW LIKELY.
.SAT...S WIND 20 KTS BECOMING W 15 KTS IN THE EVENING.
SEAS 4 FT. RAIN AND SNOW LIKELY.
.SUN...NE WIND 25 KTS. SEAS 7 FT.
.MON...E WIND 35 KTS. SEAS 10 FT.

\$\$

1.4 Example of a WSO Coastal Waters Forecast.

FZAK57 PAYA 101240
CWFYAK

MARINE FORECAST FOR YAKUTAT BAY
NATIONAL WEATHER SERVICE YAKUTAT AK
400 AM AST WED DEC 10 2003

PKZ053-110100-
YAKUTAT BAY-
400 AM AST WED DEC 10 2003

...SMALL CRAFT ADVISORY THROUGH FRI...

.TODAY...SE WINDS 25 KT. SEAS 4 FT. RAIN.
.TONIGHT...SE WINDS 25 KT. SEAS 4 FT. RAIN.
.THU...SE WINDS 25 KT. WITH GUST TO 35 KT. SEAS 5 FT.
.THU NIGHT...SE WINDS 20 KT. SEAS 3 FT. RAIN.
.FRI...S WINDS 25 KT. SEAS 4 FT. RAIN.
.SAT...S WINDS 15 KT. SEAS 3 FT.
.SUN...SE GALES 40 KT. SEAS 6 FT.

\$\$
DC DEC 03